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K Series 40KPT18A

SensComp's 'K' Series Closed Face Piezoelectric Ultrasonic sensors – 40KPT18A Transceiver

Features

Closed Face Construction

Environmentally Rugged Aluminum Housing

Durable, Sealed Construction Protects Against Water, Heat, Humidity and Other Elements

Internal Mechanical Techniques for Improved Temporal Ring Control

Specifically Intended for Operation in Air at Ultrasonic Frequencies

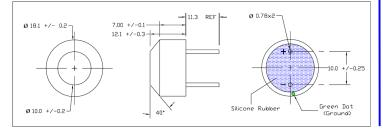
Part No.

*PID# 625600LF – K Series 40KPT18A *RoHS Compliant

Specifications

40KPT18ATransceiver
Center Frequency 40.0 ± 1.0 kHz
Bandwidth (-6 dB)2.0 kHz
Transmitting Sound Pressure Level 108 dB min at resonant frequency; 0dB re 0.0002 μbar per 10 Vrms at 30 cm
Receiving Sensitivity75 dB min at resonant frequency; 0dB = 1 volt/ µbar
Nominal Impedance (ohm)750
Ringing (mS) 1.2 max.
Capacitance at 1 kHz ± 20% 2600 pF
Maximum Driving Voltage (cont.) 20 Vrms
Total Beam Angle (-6 dB) 85° typical
Operating Temperature30° to 80° C
Storage Temperature40° to 85° C all Specifications taken typical at 25° C

Dimensions: Dimensions are in mm

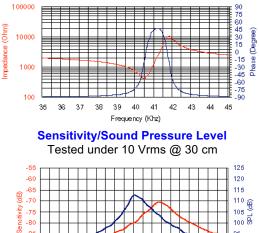


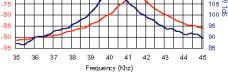
Specifications



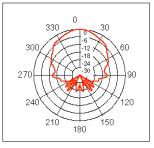
Impedance/Phase Angle vs. Frequency

Tested under 1 Vrms Oscillation Level





Beam Angle: Tested at 40.0 kHz



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